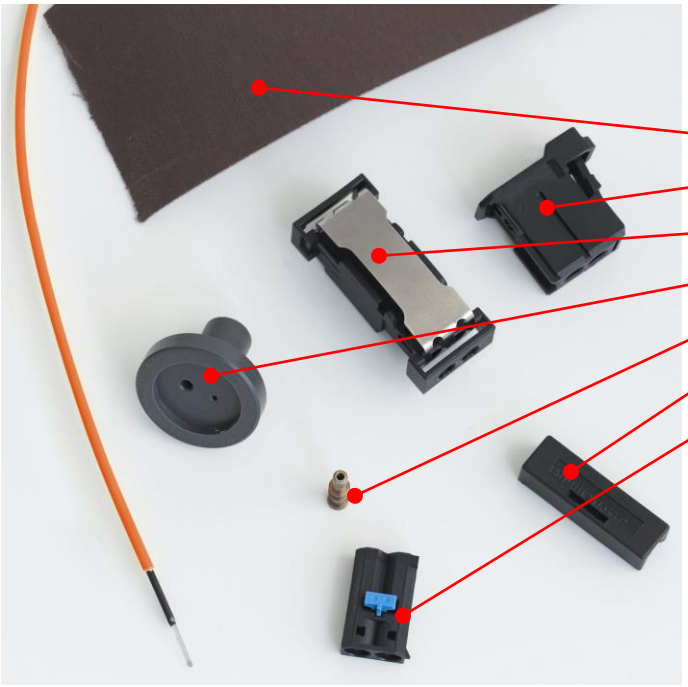
PHYSIK CHEMIE BIOLOGIE TECHNIK

LD DIDACTIC

10/14-W2010-Wei

Instruction Sheet 740 2082

MOST Accessory Set



① Polishing linen
② Fiber optic carrier housing
③ Fiber optic inline coupling, twofold
④ Fiber optic polishing fixture
⑤ Fiber optic metal inserts
⑥ Fiber optic inline coupling, single
⑦ Fiber optic carrier housing interior

1 Description

A set of fiber optic plugs and connectors to assemble 1 mm plastic fiber optic cables and polishing equipment to treat surfaces.

2 Note

Handle the optical contact with special care! You must protect the optical contact from dirt!

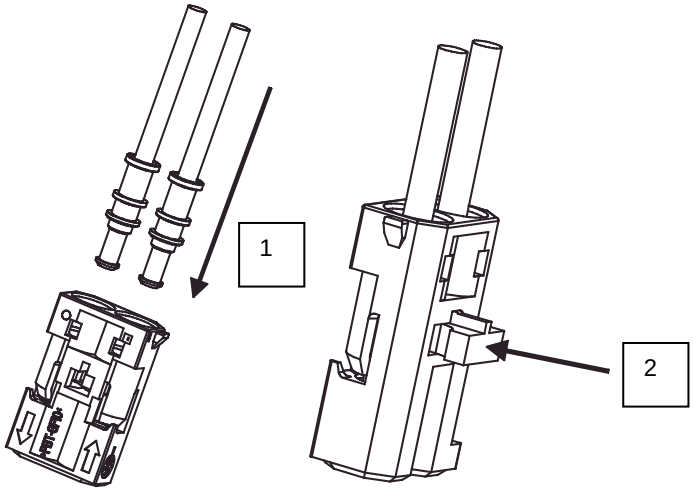
3 Installation

3.1 Fiber optic connector

The optical contact fits into the optical housing ⑦ from above (1).

The contact engages with the optical housing's arm. To guarantee a secure catch mechanism, after inserting the contact, you can lightly pull on the POF. To activate the 2nd secure contact, press the retainer (blue) into the final locking position (2). Then place the carrier interior in the exterior ② until it engages.

If optical contacts do not fit properly in the housing, or if repair is necessary, the optical contact can be disassembled. First, insert the 2nd secure contact into or remove it from the prelatch position (1, here push it in).

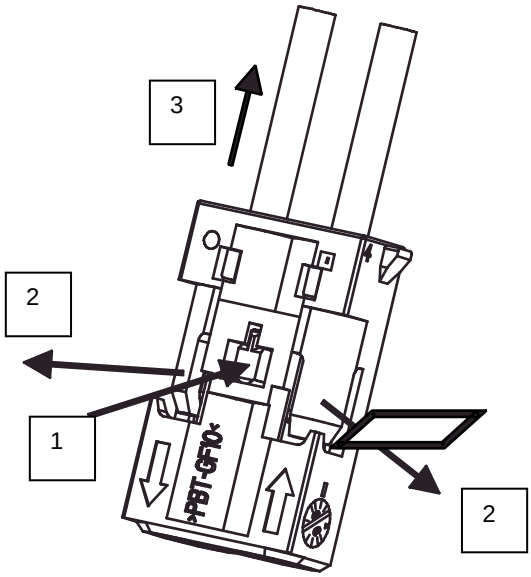


Then displacing the arm on the optical housing can deactivate the first secure contact (2). Use a small screwdriver, for example! You can then pull the line with the optical contact fastened out of the housing (3).

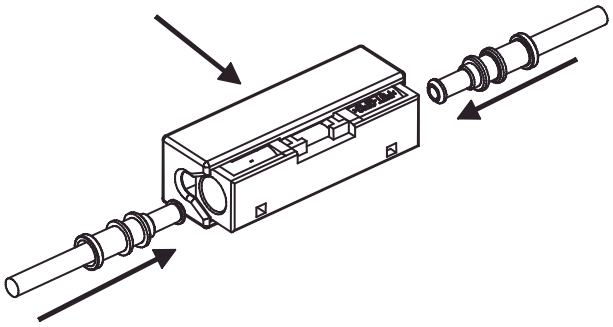
LD DIDACTIC GMBH · Leyboldstrasse 1 · D-50354 Huerth / Germany · Phone +49 (0)2233 604-0 · Fax +49 (0)2233 604-222 · e-mail: info@ld-didactic.de

© by LD Didactic GmbH

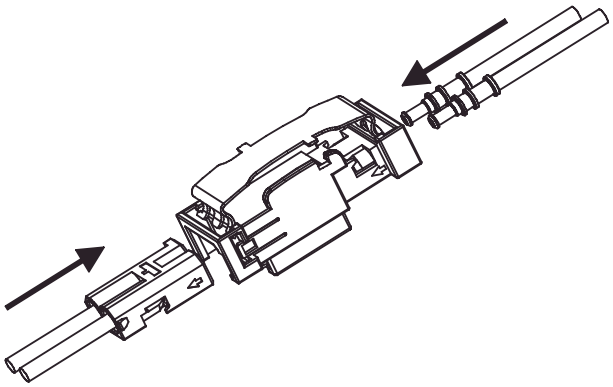
Printed in the Federal Republic of Germany
Technical alterations reserved



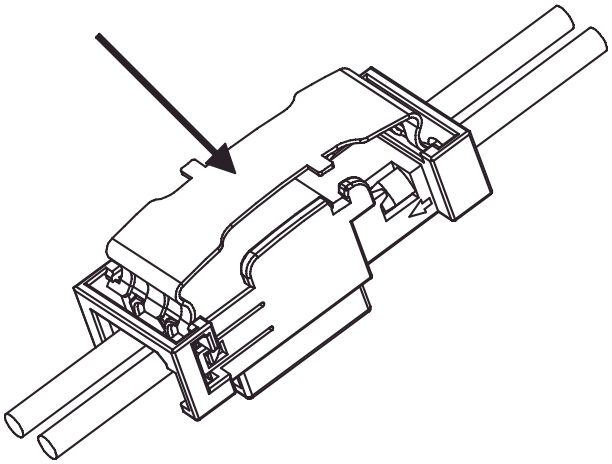
3.2 Fiber optic inline coupling, single ⑥



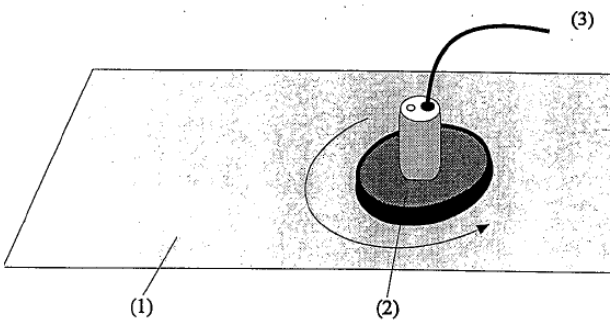
3.3 Fiber optic inline coupling, twofold ③



Lock the retaining clip:



3.4 Polish the fiber optic surface



Using the polishing aid
(1) Abrasive linen (2) Polishing aid (3) PMMA fiber

The polishing aid ④ has a hole to take in the PMMA fiber with buffer (Ø 2.2 mm) and a hole for the PMMA fiber without buffer (Ø 1 mm). You can use the latter hole to polish the transparent fiber optic cable.

To polish, use the **back** side of the abrasive linen ①. Use the abrasive side of the linen to make the surface rougher – when repeating the experiment. Use adhesive tape to fasten a piece of abrasive linen of about 150 mm in length onto a smooth surface (e.g. the laboratory bench).

***Caution:* the supporting surface must not be sensitive to scratches!**

Insert one end of the fiber into the hole provided in the polishing aid. Guide the polishing aid over the abrasive linen in a circular motion. If available, the microscope, LD 740 2088, can help check the surface. After grinding, clean the fiber's end with a soft paper towel or similar cloth.

©by LD Didactic GmbH
Printed in the Federal Republic of Germany
Technical alterations reserved